

FIG.1 MULTIPLE VIDEO ENCODERS

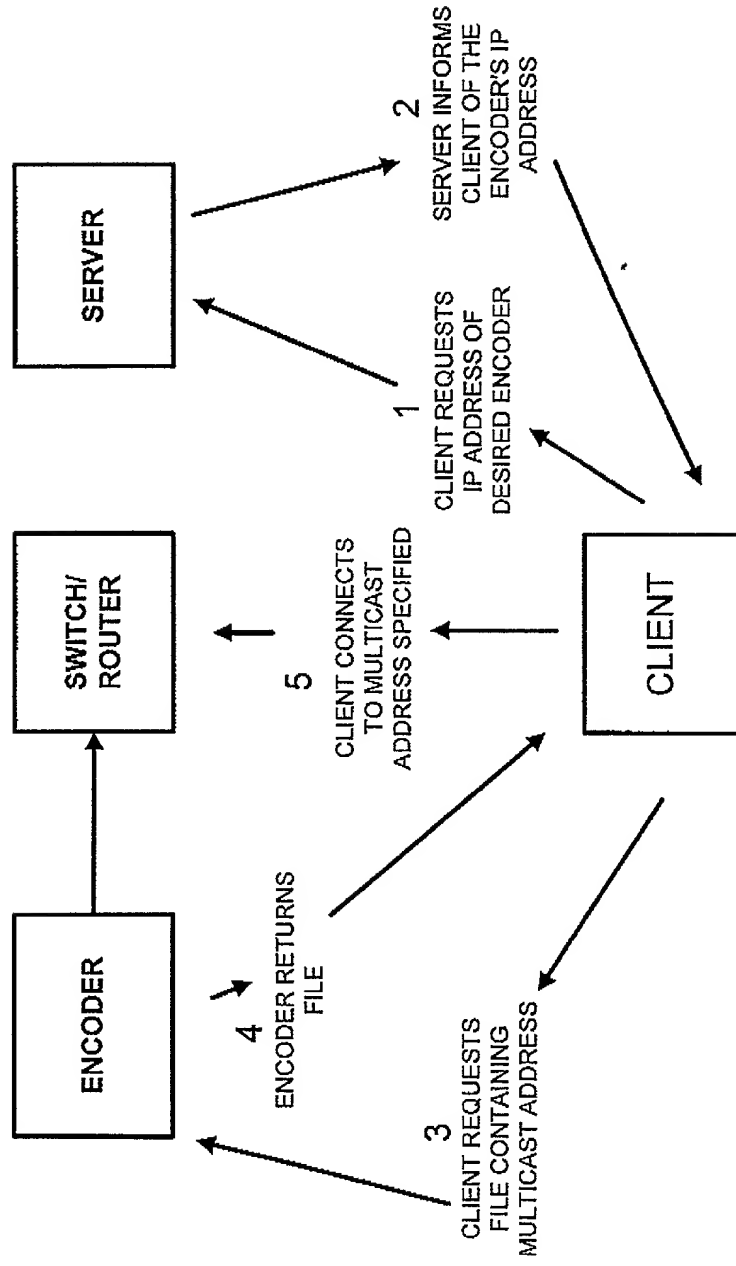


Fig. 2 MULTICAST ADDRESS RESOLUTION

FIG. 3 is a schematic diagram of a screen layout for a video display system. The screen is divided into two main areas: a MAP DISPLAY AREA on the left and a VIDEO DISPLAY AREA on the right. The MAP DISPLAY AREA contains a rectangular frame with three camera icons (represented by small rectangles with diagonal lines) positioned at the top-left, top-right, and bottom-right corners. The VIDEO DISPLAY AREA is further divided into four quadrants by a vertical and a horizontal line. A MOUSE POINTER, represented by a small rectangle with a diagonal line, is shown pointing towards the bottom-right corner of the MAP DISPLAY AREA.

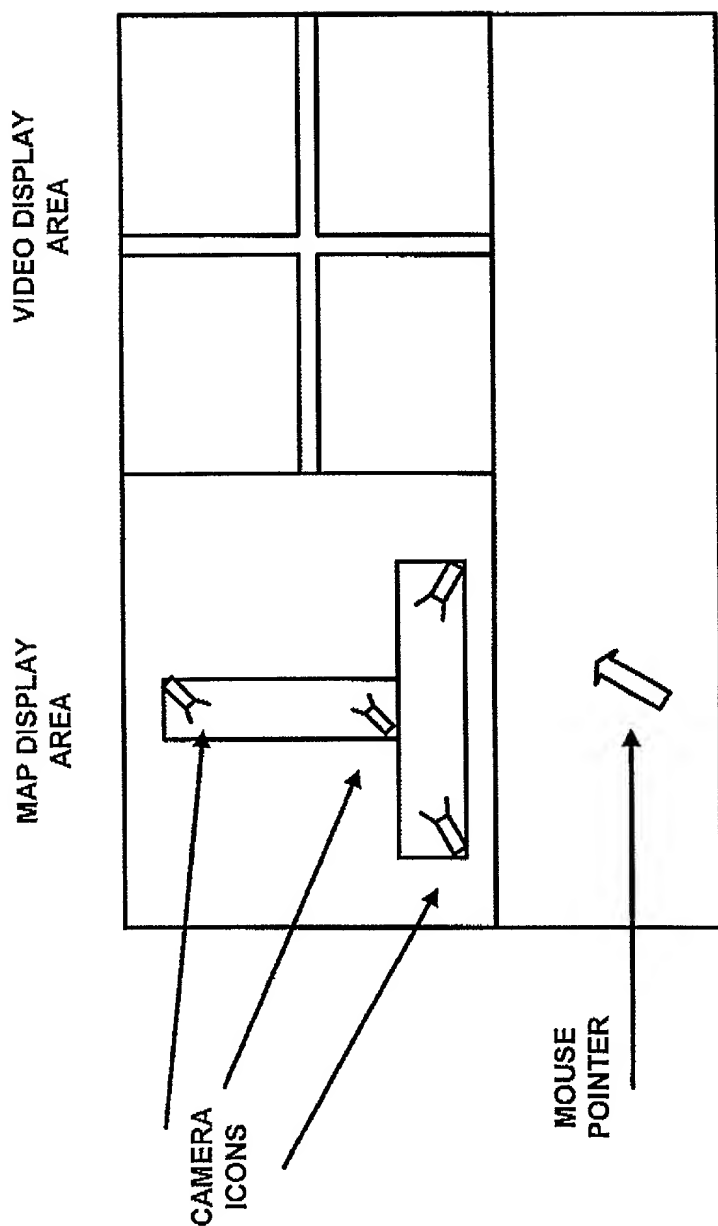


FIG. 3
SCREEN LAYOUT

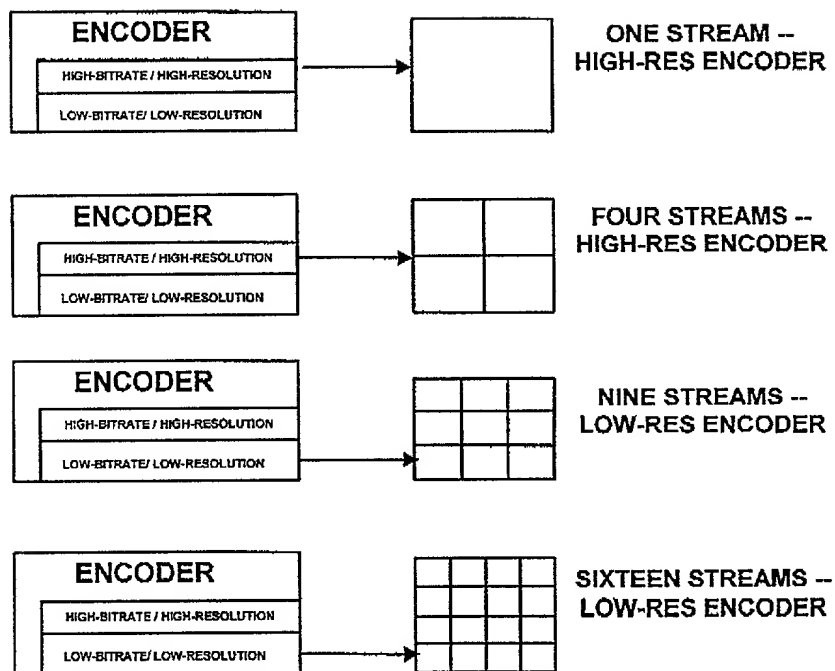


FIG. 4 -- BANDWIDTH CONSERVATION

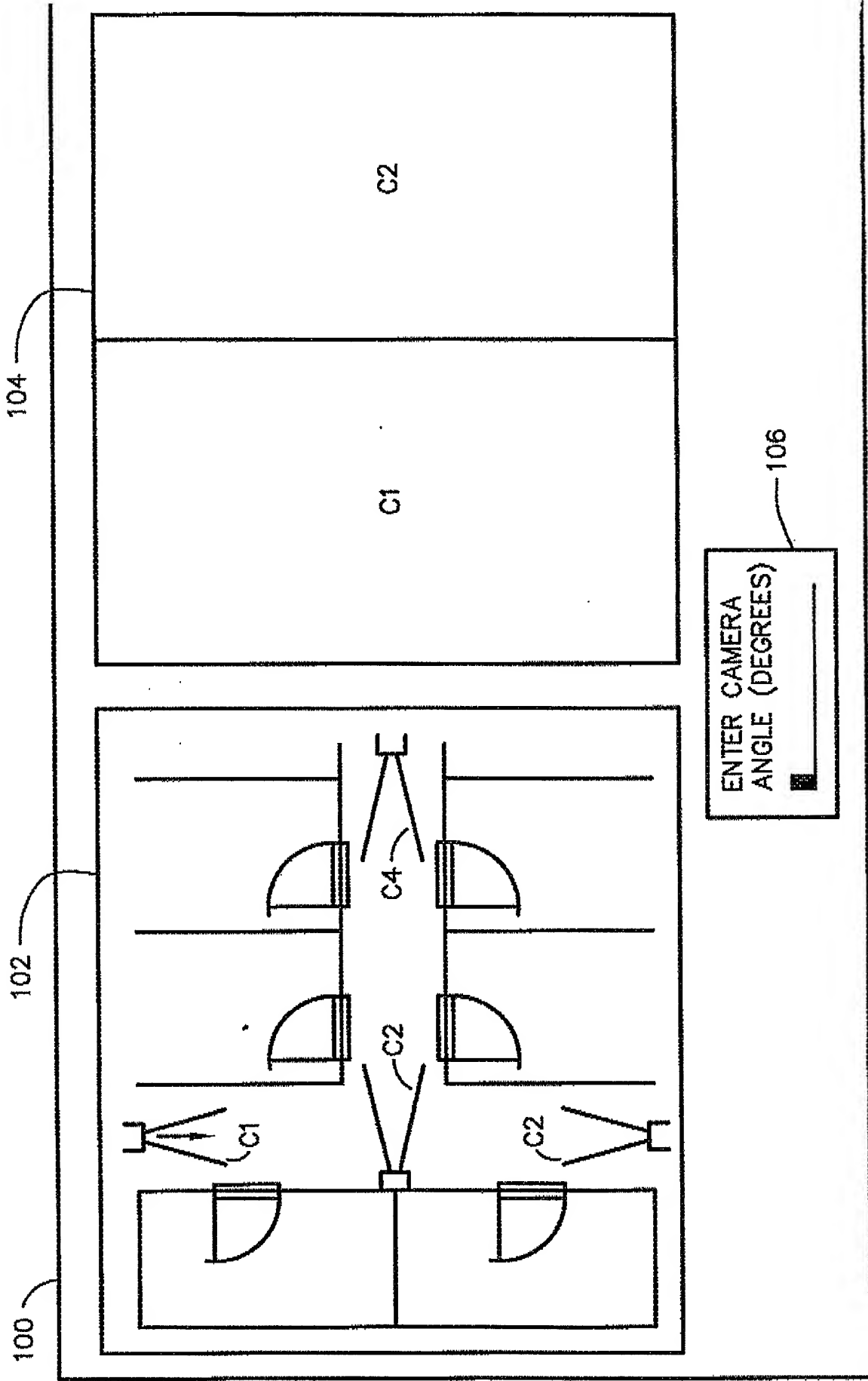


FIG. 5 CAMERA DIRECTION CONTROL

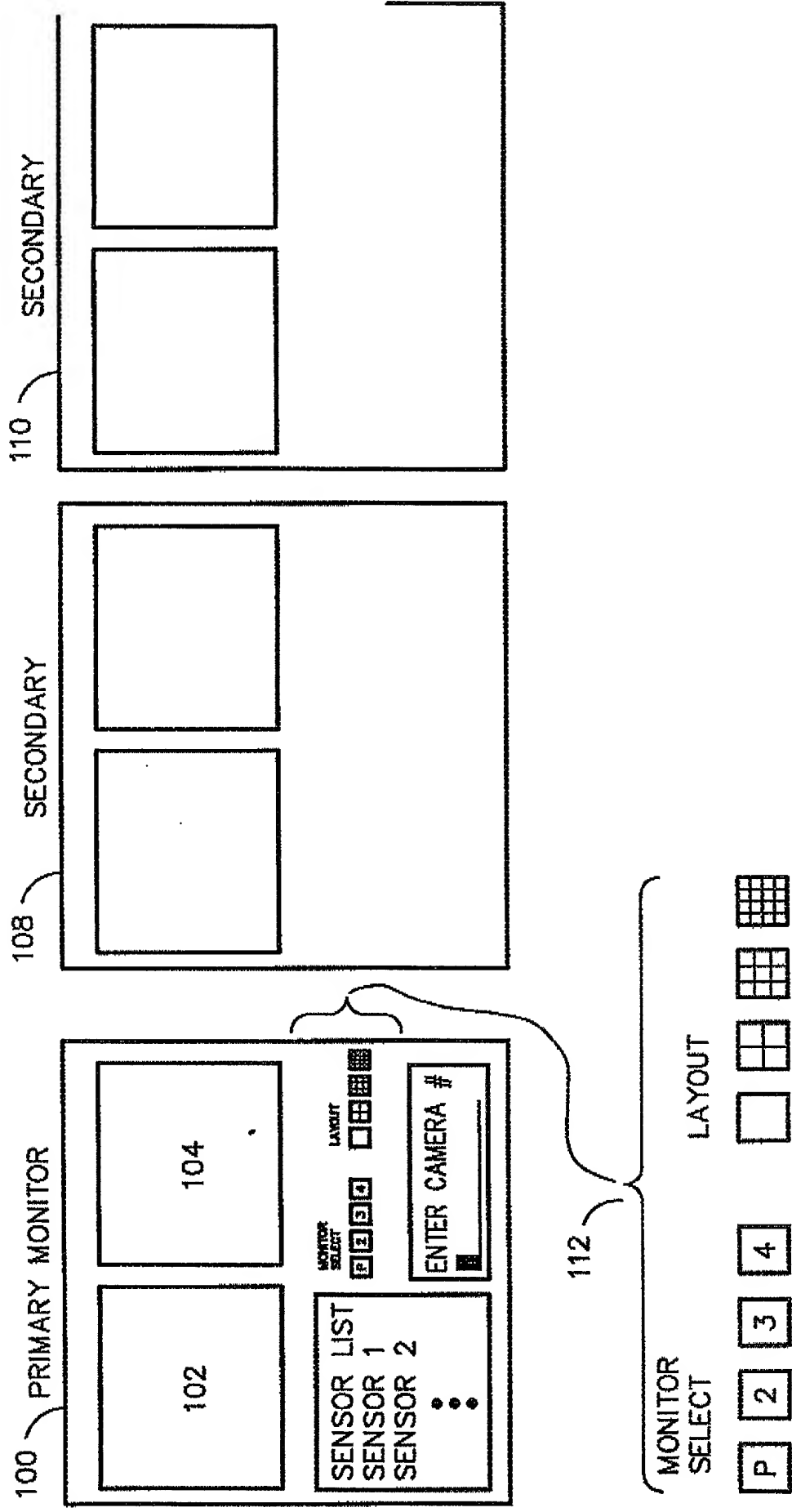


FIG. 7 SETTING UP MULTIPLE SCREENS

FIG. 8 is a schematic diagram of a dynamic control system for screens. The system includes a network 120 connected to a monitor station 122. The network 120 is connected to two groups of sensors and cameras: Group 1 (SENSORS and CAMERAS) and Group 2 (SENSORS and CAMERAS). The network 120 is also connected to a primary monitor 102 and a secondary monitor 108. The primary monitor 102 displays a 3D wireframe model of a structure with two cameras, C1 and C2, positioned at different angles. The secondary monitor 108 displays a 3D wireframe model of a structure with four cameras, 104A, 104B, 104C, and 104D, positioned at different angles.

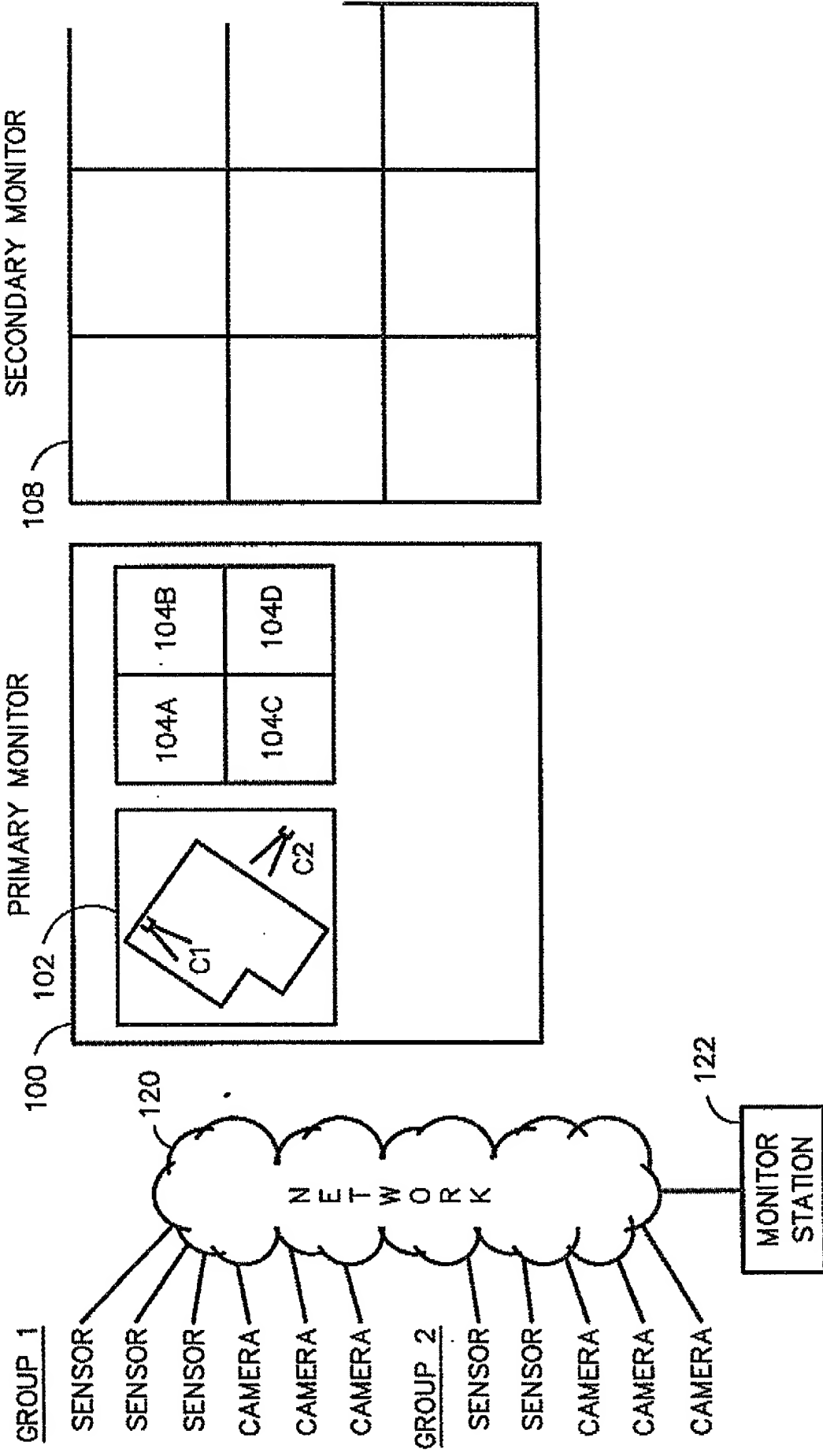


FIG. 8 DYNAMIC CONTROL OF SCREENS

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